

TM55PA2

Part Number

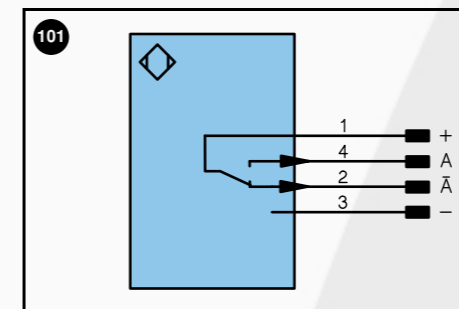


- Compact Housing
- Large Range
- Switching Distance Adjuster

Technical Data

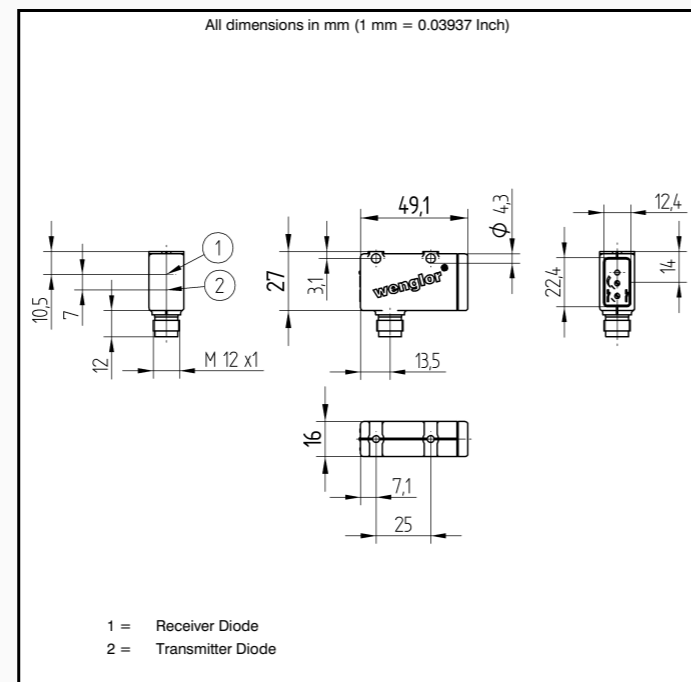
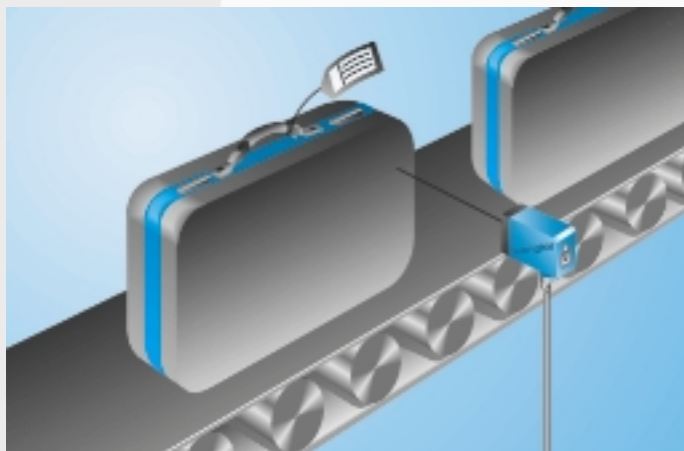
Optical Data	
Range	500 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Wave Length	880 nm
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Opening Angle	12 °
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 μs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
PNP Switching Output/Switching Current	200 mA
Residual Current Switching Output	< 50 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Adjustment	Potentiometer
Housing	Plastic
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V

CE	50 V	TUV	UL LISTED	Part Number	TM55PA2
PNP NO/NC antivalent					●
Connection Diagram No.					101
Control Panel No.					M 4
Suitable Plug No.					1



Legend			Wire colors according to DIN IEC 757		
+	Power supply "+"	U	Test input	BK	black
-	Power supply "0V"	W	Trigger input	BN	brown
-	Power supply (AC Voltage)	o	Analog output (1,2,3,...)	RD	red
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output	OG	orange
A̅	Switching output (1,2,3...)/ NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	Aw	Valve output	GN	green
V̅	Contamination / Error output (NC)	a	Valve control output "+"	BU	blue
E	Input (analog or digital)	b	Valve control output "0V"	VT	violet
T	Teach input	SY	Synchronization	GY	grey
Z	Time delay (activation)	E+	Receiver-Line	WH	white
S	Shielding	S+	Emitter-Line	PK	pink
RxD	RS-232 receive path	⊕	Grounding	GNYE	green yellow
TxD	RS-232 send path				

The transmitter and the receiver are integrated into a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.

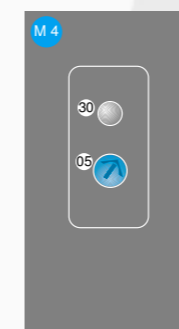


Specifications are subject to change without notice
28/02

Accessories

Mounting Bracket WM2

Ctrl. Panel



05 = Switching Distance Adjuster
30 = Switching Status/Contamination Warning